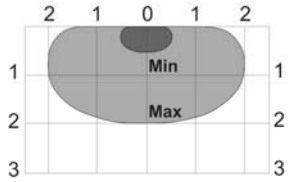
XM100
USER'S GUIDE

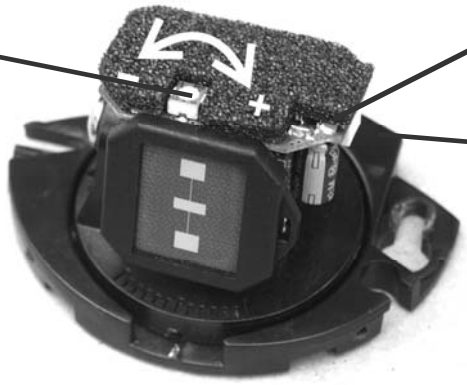
UNIVERSAL MOTION SENSOR FOR AUTOMATIC DOORS

1 General information

SENSITIVITY ADJUSTMENT



Vertical angle: 30°
Mounting height: 2.2m



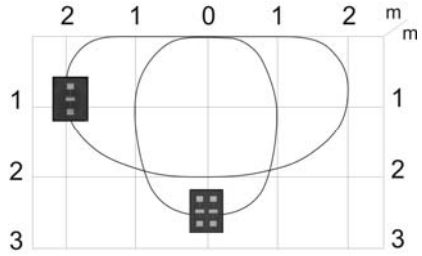
LED
- LED flashes for a few seconds after power-on.
- LED lights up when the sensor detects motion.

WIRING

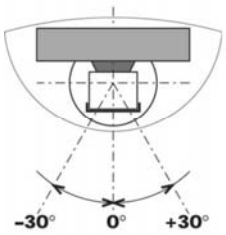
GREEN	Power supply	+12V-24V
BROWN	Ground	0V
WHITE	Output contact 1	NO
YELLOW	Output contact 2	COM

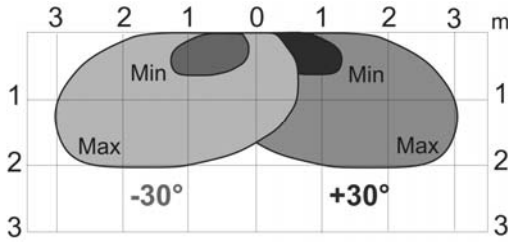
2 Angle adjustments

1 Width of the sensing field: choice of antenna

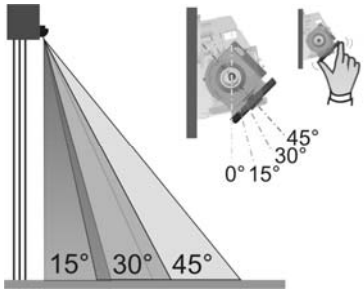


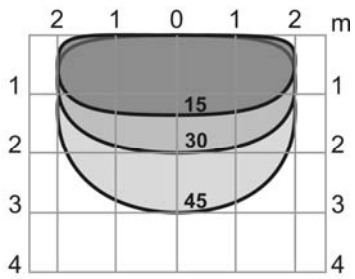
2 Position of detection field: adjust the lateral angle of the planar antenna



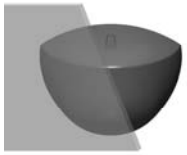
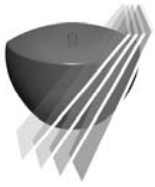


3 Depth of detection field: adjust the vertical angle of the planar antenna





3 Installation tips

				
Avoid vibrations!!!	Do not cover the sensor!	Avoid moving objects in proximity of the sensor!	Avoid HF lamps and fluorescent lighting in proximity of the sensor!	Do not remove the protection which avoids contact with the electronical parts!

4 Troubleshooting

SYMPTOMS	POSSIBLE CAUSES	CORRECTIVE ACTION
The door will not open and no red LED lights up.	The sensor power is off.	Check the wiring and the power supply.
The door opens and closes constantly.	1. The sensor "sees" the door moving.	Increase the tilt angle and/or reduce the sensitivity.
	2. Closing the door creates vibrations picked up by the sensor.	Ensure that the sensor is correctly fixed.
The door will not close. Red LED OFF	1. On-Off switch at door control is in wrong position or faulty.	Make sure that On-Off switch for door is in the ON or AUTOMATIC position.
	2. Improper output configuration	Check the output configuration setting on each sensor connected to the door operator.

5 Technical specifications

Technology	: microwave and microprocessor
Transmitter frequency	: 24.175 GHz
Transmitter radiated power	: <20 dBm EIRP
Transmitter power density	: < 5 mW/cm²
Mounting height	: from 1.8 m to 3 m
Tilt angles	: 0° to 90° vertical and -30° to + 30° lateral
Detection area (mounting height = 2.2 m)	: 4m (W) x 2m (D)
Detection mode	: motion
Minimum speed	: 5 cm/s (measured in the sensor axis)
Supply voltage	: 12V to 24V DC +30% / -10%
Power consumption	: < 2W (VA)
Output (electronic relay)	
Max. current	: 250 mA
Max. voltage	: 50 VDC/VAC
Temperature range	: -20°C to +55°C
Norm Conformity	: R&TTE 1999/5/EC; EMC 2004/108/EC
Degree of protection	: IP54
Material	: ABS & Polycarbonate
Color of head housing	: black smoked, aluminum
Dimensions	: 80 mm (W) x 60 mm (H) x 55 mm (D)
Weight	: 140g
Length of cable	: 2.5m

Specifications are subject to changes without prior notice
The declaration of conformity is available on our website: www.faac.it

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